

SUPPLEMENTARY INFORMATION

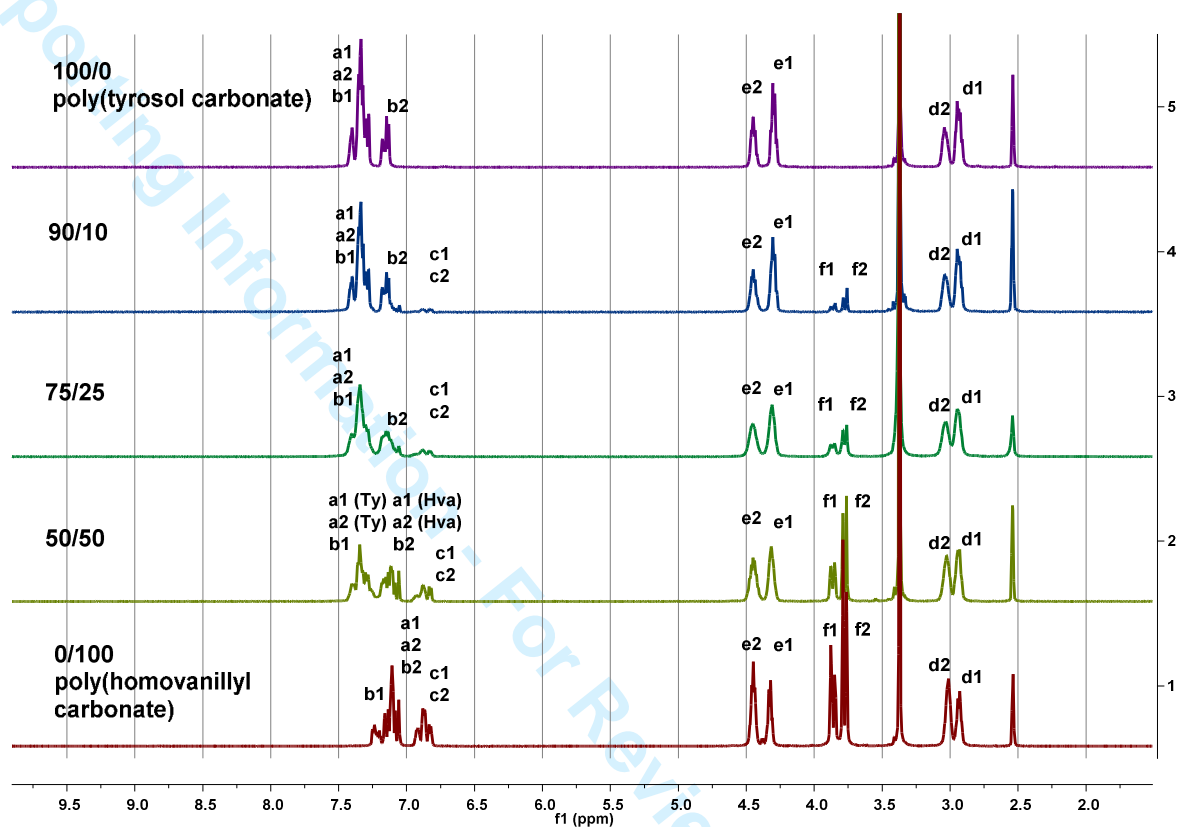


Figure S1. 500 MHz ¹H-NMR spectra from top to bottom of compositions of Ty/ Hva (mol %) 100/0, 90/10, 75/25, 50/50, 0/100 in *d*⁶-DMSO; peak assignments to structure representation in Figure 1 and Table 1.

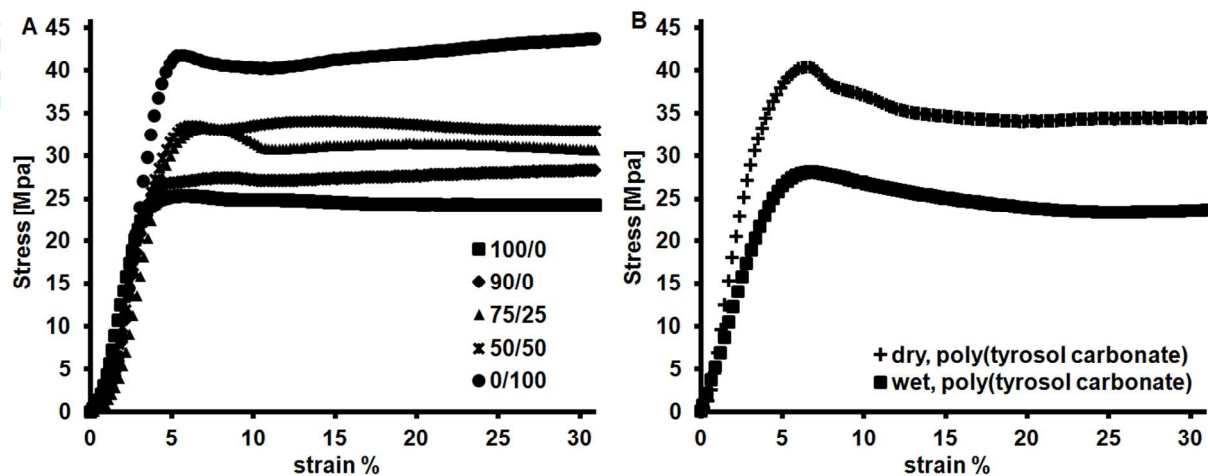


Figure S2. A) Stress-strain curves of compositions of Ty/ Hva (mol %) 100/0, 90/10, 75/25, 50/50, 0/100 in the wet state in PBS at 37 °C. B) Stress-strain curves for poly(tyrosol carbonate) in the dry state at 25 °C and wet state in PBS at 37 °C.

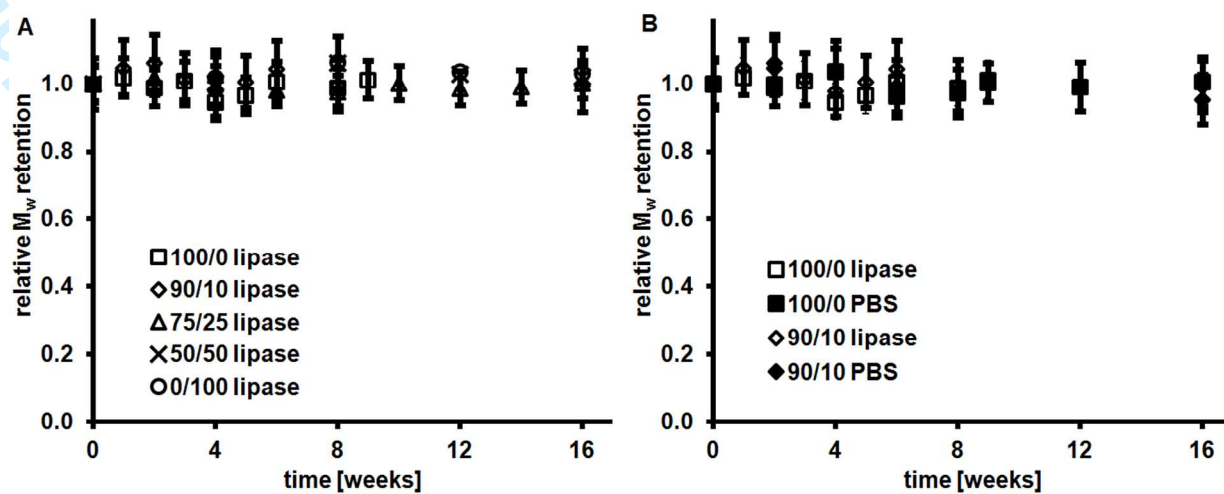


Figure S3. Relative M_w retention of (A) polycarbonate specimens with compositions of Ty/ Hva (mol %) 100/0, 90/10, 75/25, 50/50, 0/100 incubated in lipase solution at 37 °C, and (B) 100/0 and 90/10 in lipase solution and PBS control at 37 °C.

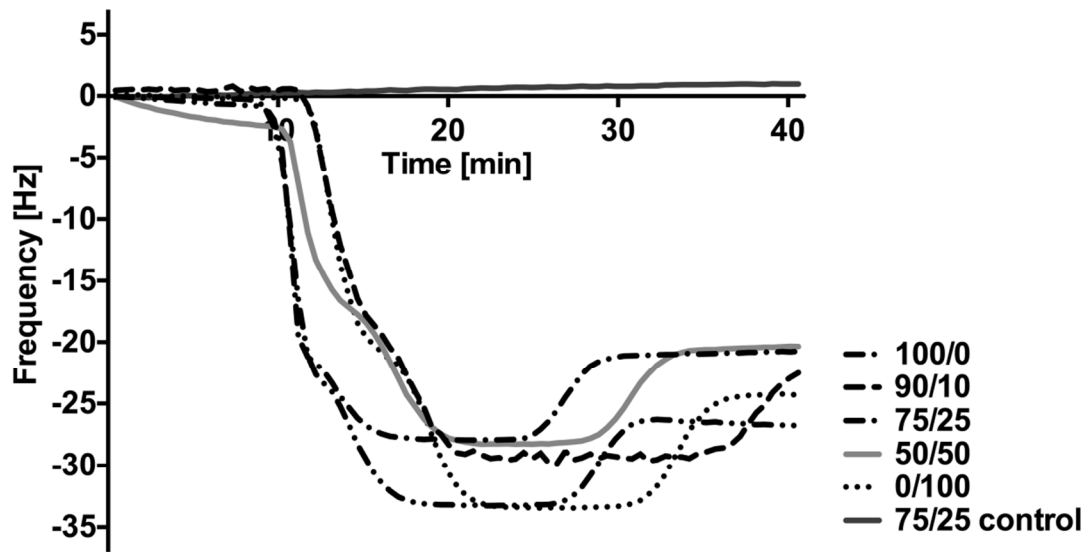


Figure S4. QCM lipase adsorption isotherms at 20 °C for Ty/ Hva (mol %) 100/0, 75/25/ 50/50, 0/100.

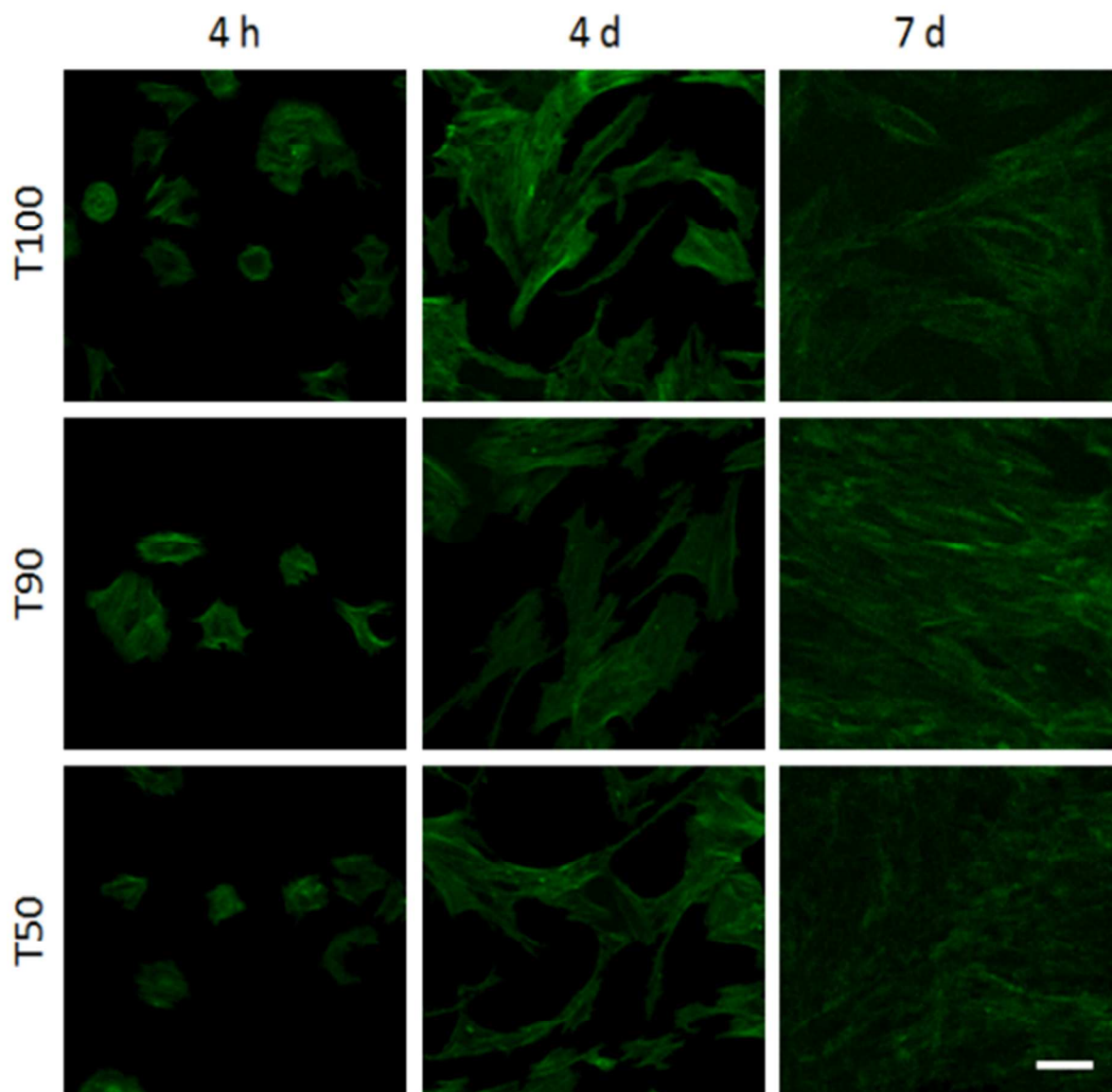


Figure S5. Cytocompatibility of polycarbonates with Ty/ Hva (mol %) 100/0, 90/10, 50/50 after 4 hours, 4 days and 7 days. Representative images from epifluorescence microscopy on hMSC morphology. Scale bar = 100 μm .

Table S1: Ratios of carbonate sequence isomers determined by integration of 500 MHz $^1\text{H-NMR}$ spectra from top to bottom of compositions of Ty/ Hva (mol %) 100/0, 90/10, 75/25, 50/50, 0/100 in d^6 -DMSO

Copolymer composition Ty/ Hva [molar]	diaryl carbonate (head- to-head)	dialkyl carbonate (tail-to-tail)	alkyl aryl carbonate (head-to-tail)
100/0	1	1	1.3
90/10	1	1	1.4
75/25	1	1	1.6
50/50	1	1	2.0
0/100	1	1	2.8
statistically expected	1	1	2.0